

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_4 ~ C1216XT-20LXXK-MDEX-TCY-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629_4_M-20L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-20L-xxK-MD-EX-TCY-SO

[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder

[OTHER] Internal Reflector, Medium Beam

[OTHER] Solite Lens, Flush with Lower Trim

[OTHER] 25.2 Degree Beam Angle

[OTHER] Aimed at 0 Degrees (Nadir)

[LAMPCAT] N/A, 19mm LES

[LAMP] N/A, 83 CRI

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available CCT's

[OTHER] This report prepared by Spectrum Lighting, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1834
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.46
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_4 ~ C1216XT-20LXXK-MDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17390	18427	18307
55	6579	6868	6796
65	4607	4563	4673
75	4554	4694	5115
85	3670	3265	4019

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	4752.300	4752.300	4752.300	4752.300	4752.300	4752.300	4752.300	4752.300	4752.300	4752.300
5	4182.668	4233.626	4165.796	4228.165	4198.041	4174.571	4223.582	4170.107	4235.498	4191.379
10	2948.989	3025.635	2939.471	3025.160	2969.628	2932.429	2994.844	2929.551	3020.368	2955.222
15	1794.464	1855.573	1800.961	1878.335	1820.961	1774.305	1818.782	1782.459	1849.174	1776.476
20	1098.706	1129.225	1110.993	1167.873	1122.497	1075.818	1096.884	1093.465	1126.482	1061.363
25	786.107	800.545	798.705	829.801	802.261	769.676	775.732	780.696	790.271	750.882
30	633.405	652.005	649.307	672.194	653.670	636.802	641.813	633.833	634.077	610.142
35	488.704	507.697	502.038	527.574	512.648	501.660	507.161	491.809	492.767	469.033
40	319.235	336.223	330.229	346.432	335.591	330.603	335.641	317.881	322.333	308.434
45	175.450	191.260	185.909	190.342	184.699	187.065	188.330	174.315	180.406	176.289
50	91.411	102.217	99.327	101.130	97.199	100.860	100.206	94.701	98.460	94.682
55	53.845	57.052	56.209	58.466	55.617	58.489	57.586	58.892	61.242	56.501
60	36.554	36.530	36.895	38.849	36.716	39.826	41.468	42.449	44.365	40.716
65	27.779	28.333	27.517	29.518	28.181	32.988	33.161	35.011	35.534	34.124
70	22.208	22.824	21.232	23.902	22.852	29.324	30.526	31.472	30.180	30.646
75	16.819	16.963	17.334	19.138	18.891	24.849	26.685	27.119	27.205	27.272
80	10.453	11.105	10.630	11.975	12.146	20.394	20.718	22.098	23.090	21.732
85	4.564	4.674	4.060	4.454	4.998	13.516	13.867	16.013	14.781	15.174
90	1.240	0.963	1.359	1.154	1.229	8.018	6.513	8.752	7.138	8.339
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	4752.300	4752.300	4752.300	4752.300	4752.300	4752.300	4752.300
5	4265.027	4197.737	4232.650	4239.645	4191.850	4243.574	4182.668
10	3052.846	2960.380	2998.985	3006.804	2937.487	3023.047	2948.989
15	1844.487	1781.907	1807.926	1800.079	1752.644	1838.726	1794.464
20	1090.974	1070.186	1081.577	1063.748	1043.599	1112.210	1098.706
25	761.085	758.904	762.640	752.128	745.523	784.320	786.107
30	617.819	612.211	616.640	615.269	609.975	632.652	633.405
35	478.540	469.390	472.545	472.441	467.817	489.768	488.704
40	318.244	304.289	308.609	310.606	306.943	320.986	319.235
45	180.096	168.228	170.349	176.492	174.181	174.296	175.450

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50	95.705	89.374	89.715	91.397	91.090	91.423	91.411
55	56.836	53.792	54.263	50.367	50.810	53.341	53.845
60	40.309	39.934	37.734	33.844	34.062	33.452	36.554
65	33.060	32.714	32.627	25.757	26.681	28.070	27.779
70	29.437	28.185	29.168	20.904	21.636	22.892	22.208
75	25.333	25.713	23.777	15.482	16.086	18.834	16.819
80	22.066	20.493	19.945	9.985	11.167	11.430	10.453
85	15.006	14.175	14.115	3.985	4.087	3.608	4.564
90	6.996	8.100	7.166	1.228	1.088	0.966	1.240
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	888.47	N.A.	48.50
0-30	1263.62	N.A.	68.90
0-40	1564.63	N.A.	85.30
0-60	1767.9	N.A.	96.40
0-80	1821.71	N.A.	99.30
0-90	1832.47	N.A.	99.90
10-90	1467.98	N.A.	80.10
20-40	676.16	N.A.	36.90
20-50	824.74	N.A.	45.00
40-70	234.43	N.A.	12.80
60-80	53.81	N.A.	2.90
70-80	22.65	N.A.	1.20
80-90	10.76	N.A.	0.60
90-110	1.20	N.A.	0.10
90-120	1.20	N.A.	0.10
90-130	1.20	N.A.	0.10
90-150	1.20	N.A.	0.10
90-180	1.20	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1833.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	364.48
10-20	523.99
20-30	375.14
30-40	301.02
40-50	148.58
50-60	54.69
60-70	31.16
70-80	22.65
80-90	10.76
90-100	1.20
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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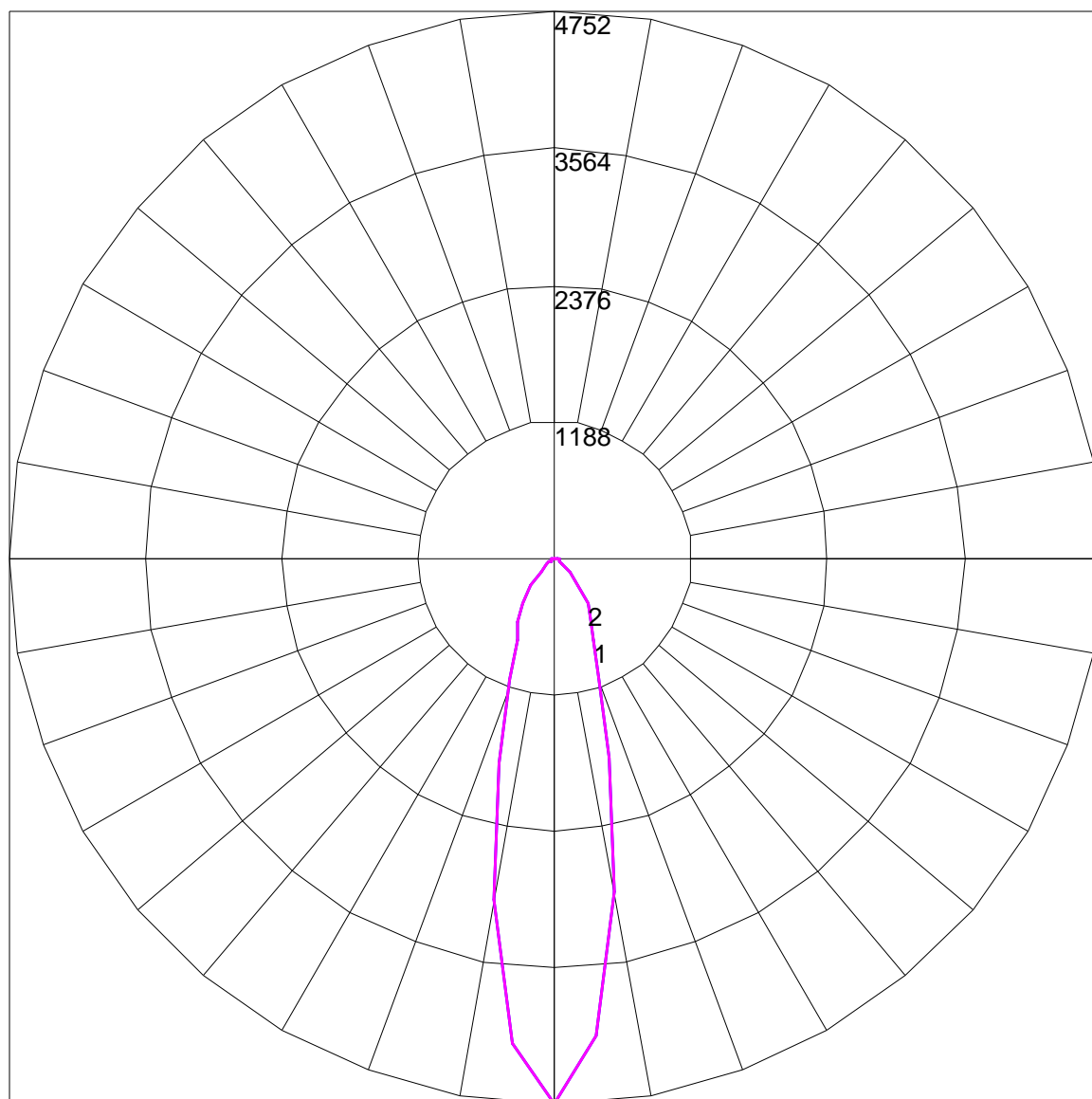
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	70	65	83	75	69	65	73	69	65	72	68	65	71	67	64	63
8	81	72	66	62	80	71	66	62	70	65	61	69	64	61	68	64	61	60
9	77	68	63	59	76	68	62	59	67	62	58	66	61	58	65	61	58	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54

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POLAR GRAPH



Maximum Candela = 4752.3 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)